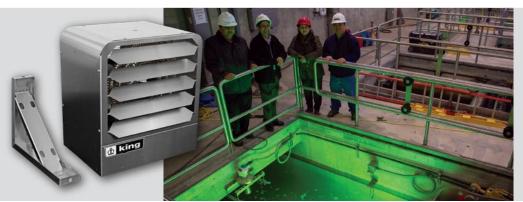


Stainless Steel Unit Heater KBS Series



Model Code:

KBS 48 10 -1 -T -B1 A B C D E F

A: Series

B: 20 - 208V, 24 - 240V 27 - 277V, 48 - 480V

C: KiloWatts

D: -1 Phase, -3 Phase E: -T = Built-In Thermostat

F: -B1 = Bracket







- 304 Stainless Steel Construction
- For Areas Requiring Periodic Hose-Down
- Adjustable Louvers to Direct Air
- Permanent Lubricated Unit Bearing Motor
- Patented Smart Limit Protection®
- High Mass Steel Fin Heat Exchanger
- N.E.M.A. 4 Enclosure
- Universal Wall/Ceiling Bracket Included
- 2-Year Limited Warranty

The KBS Stainless Steel Unit Heater

KBS unit heaters are specially constructed for heating of, and freeze protection in, dirty, dusty or corrosive areas requiring periodic washing or hose-down. Typical places of use are: waste water treatment plants, car/truck washes, cement plants, steel mills or such, canneries and dairy facilities, ship and marine docks, fish processors and load banks for generators. The heater is constructed from 18-gauge type 304 Stainless Steel and elements making it extremely corrosion resistant. The N.E.M.A. 4 wiring compartment is sealed and gasketed making it water tight. All optional control components are U.L. listed for use in N.E.M.A. 4 enclosures.

Ordering Information - single phase

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	MODEL	UPC	KW	BTUH	PHASE	VOLTS	AMPS	**THERM. CONTROL VOLTAGE	MOTOR HP	CFM	TEMP. RISE		MAX. MOUNT HEIGHT	*SIZE	WT. (lbs.)
	KBS2003-1-T-B1	22064	3	10.2	1	208	14.4	208	9W	400	40°	16ft.	8ft.	Α	30.5
	KBS2005-1-T-B1	22125	5	17	1	208	24	208	9W	400	40°	16ft.	8ft.	Α	30.5
0001/	KBS2007-1-T-B2	20934	7.5	25.6	1	208	36.1	208	16W	600	40°	20ft.	9ft.	В	45.0
208V	KBS2010-1-T-B2	55492	10	34.1	1	208	48.1	208	25W	725	44°	24ft.	10ft.	В	45.0
	KBS2012-1-T-B2	55495	12.5	42.7	1	208	60.1	208	35W	825	48°	30ft.	11ft.	С	46.5
	KBS2403-1-T-B1	20889	3	10.2	1	240/208*	12.5	240	9W	400	40°	16ft.	8ft.	Α	30.5
	KBS2405-1-T-B1	20820	5	17	1	240/208*	20.8/18	240	9W	400	40°	16ft.	8ft.	Α	30.5
240V	KBS2407-1-T-B2	55489	7.5	25.6	1	240/208*	31.2/27	240	16W	600	40°	20ft.	9ft.	В	45.0
	KBS2410-1-T-B2	55493	10	34.1	1	240/208*	41.6/36.1	240	25W	725	44°	24ft.	10ft.	В	45.0
	KBS2412-1-T-B2	55496	12.5	42.7	1	240/208*	52/45.1	240	35W	825	48°	30ft.	11ft.	С	46.5
	KBS2703-1-T-B1	22216	3	10.2	1	277	10.8	277	9W	400	40°	16ft.	8ft.	Α	30.5
277V	KBS2705-1-T-B1	13281	5	17	1	277	18.1	277	9W	400	40°	16ft.	8ft.	Α	30.5
	KBS2707-1-T-B2	55490	7.5	25.6	1	277	27	277	16W	600	40°	20ft.	9ft.	В	45.0
	KBS2710-1-T-B2	33157	10	34.1	1	277	36.1	277	25W	725	44°	24ft.	10ft.	В	45.0
	KBS4803-1-T-B1	19734	3	10.2	1	480	6.3	24	9W	400					30.5
480V	KBS4805-1-T-B1	19759	5	17	1	480	10.4	24	9W	400	40°	16ft.	8ft.	Α	30.5
1301	KBS4807-1-T-B2	55491	7.5	25.6	1	480	15.6	24	16W	600	40°	20ft.	9ft.	В	45.0
	KBS4810-1-T-B2	55494	10	34.1	1	480	20.8	24	25W	725	44°	24ft.	10ft.	В	45.0

Ordering Information - three phase

	MODEL	UPC	KW	BTUH	PHASE	VOLTS	AMPS	**THERM. CONTROL VOLTAGE	MOTOR HP	CFM	TEMP. RISE	AIR THROW		*SIZE	WT. (lbs.)
	KBS2012-3-T-B2	55501	12.5	42.7	3	208	34.6	208	35W	825	48°	30ft.	11ft.	С	46.5
208V	KBS2015-3-T-B2	55503	15	51.2	3	208	41.6	208	35W	925	51°	33ft.	12ft.	С	46.5
200¥	KBS2020-3-T-B2	55497	20	68.3	3	208	55.5	208	50W	1100	57°	47ft.	13ft.	С	46.5
	KBS2412-3-T-B2	55502	12.5	42.7	3	240/208*	30/26	240	35W	825	48°	30ft.	11ft.	С	46.5
240V	KBS2415-3-T-B2	55504	15	51.2	3	240/208*	36/31.2	240	35W	925	51°	33ft.	12ft.	С	46.5
	KBS2420-3-T-B2	55498	20	68.3	3	240/208*	48.1/41.6	240	50W	1100	57°	47ft.	13ft.	С	46.5



Stainless Steel Unit Heater KBS Series

Ordering Information - multi-phase

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	MODEL	UPC	KW	BTUH	PHASE	VOLTS	AMPS	**THERM. CONTROL VOLTAGE	MOTOR HP	CFM	TEMP. RISE	AIR Throw	MAX. MOUNT HEIGHT	*SIZE	WT. (lbs.)
	KBS2003-3MP-T-B2	19701	3	10.2	1-3	208	8.3	208	9W	400	40°	16ft.	8ft.	С	46.5
208V	KBS2005-3MP-T-B2	22006	5	17.1	1-3	208	24 & 13.9	208	9W	400	40°	16ft.	8ft.	С	46.5
	KBS2007-3MP-T-B2	22136	7.5	25.6	1-3	208	36.1 & 20.8	208	16W	600	40°	20ft.	9ft.	С	46.5
	KBS2010-3MP-T-B2	19767	10	34.1	1-3	208	27.7	208	25W	725	44°	24ft.	10ft.	С	46.5
240V	KBS2403-3MP-T-B2	55499	3	10.2	1-3	240/208*	12.5/7.2	240	9W	400	40°	16ft.	8ft.	С	46.5
24UV	KBS2405-3MP-T-B2	55500	5	17.1	1-3	240/208*	20.8/18 & 18/15.6	240	9W	400	40°	16ft.	8ft.	С	46.5
	KBS2407-3MP-T-B2	22140	7.5	25.6	1-3	240/208*	31.2/27 & 18/15.6	240	16W	600	40°	20ft.	9ft.	С	46.5
	KBS2410-3MP-T-B2	22152	10	34.1	1-3	240/208*	41.6/36.1 & 24/20.8	240	25W	725	44°	24ft.	10ft.	С	46.5
	KBS4803-3MP-T-B2	19735	3	10.2	1-3	480	6.3	24	9W	400	40°	16ft.	8ft.	С	46.5
	KBS4805-3MP-T-B2	22129	5	17.1	1-3	480	10.4 & 6	24	9W	400	40°	16ft.	8ft.	С	46.5
480V	KBS4807-3MP-T-B2	22143	7.5	25.6	1-3	480	15.6 & 24	24	16W	600	40°	20ft.	9ft.	С	46.5
	KBS4810-3MP-T-B2	22156	10	34.1	1-3	480	20.8 & 12	24	25W	725	44°	24ft.	10ft.	С	46.5
	KBS4812-3MP-T-B2	19783	12.5	42.7	1-3	480	26 & 15	24	35W	825	48°	30ft.	11ft.	С	46.5
	KBS4815-3MP-T-B2	55505	15	51.2	1-3	480	18	24	35W	925	51°	33ft.	12ft.	С	46.5
	KBS4820-3MP-T-B2	22177	20	68.3	1-3	480	41.6/24.1	24	50W	1100	57°	37 ft.	12ft.	Е	55.0

Maximum mounting height is manufacturer's recommendation

Factory Installed Options

MODEL	DESCRIPTION	WT. (lbs)
-CT24	Transformer that Converts 208, 240 and 277 Volts to 24 Volt Control Circuit (add power contactor (-CX) for 3 kW-5kW 1-Phase models)	3

Replacement Accessories

MODEL	UPC#	DESCRIPTION	WT. (lbs)
KBB-1-SS	15254	Mounting Bracket - Small	3
KBB-2-SS	15256	Mounting Bracket - Large	4

Engineering Specifications

Contractor shall supply and install KBS Series Stainless Steel heaters, manufactured by King Electrical Mfg. Company. Heaters shall be of the wattage and voltage as indicated on the plans.

Stainless Steel Construction: All exterior and interior metal enclosure parts are made from 18 gauge type 304 Stainless Steel. All fasteners and hardware are Stainless Steel.

Adjustable Outlet Louver: Stainless Steel louvers direct air up or down as needed for the heating application.

Rear Intake Screen: Heavy gauge Stainless Steel screen protects against foreign objects making accidental contact with the rotating fan blade.

N.E.M.A. 4 Enclosure: Every electrical component in the wiring compartment is sealed with a polyurethane adhesive. The bottom access panel is sealed with a ¼" high density polyurethane gasket. This provides excellent protection against corrosion, windblown dust, dirt, and rain, splashing water and hose-directed water. All optional control accessories are N.E.M.A. 4 rated.

Stainless Steel Spiral Fin Elements: The metal sheath element is brazed with spiral fins then molded in to a coil configuration. This combination produces the best heat transfer while eliminating the potential for hot spots by positioning the element in the maximum air flow stream. Stainless steel increases element life in extremely corrosive environments such as waste water treatment plants.

Totally Enclosed Fan Motor: Permanently lubricated, long life unit bearing coated motor with enclosed rotor resists moisture and corrosion for long-lasting, trouble-free operation.

Aluminum Fan Blade: Axial flow-type mounted directly to the motor shaft for maximum efficiency.

Manual Reset Limit Electrically Held: Power is disconnected from the heater if an overheated condition occurs. The heater is re-energized automatically when the normal operating temperature returns.

Internal Controls: Magnetic contactors are standard on all 480V heaters, all 208V/1-Phase, 240V/1-Phase, 277V/1-Phase heaters above 5kW, and all 3-Phase heaters. The control voltage is equal to the line voltage (208, 240 or 277) except for 480V models where a transformer is provided for 24V control. Over 5kW the line voltage control is operating the contactor coil only and will draw only 1 Amp. **Fusing:** Internal circuit fusing is provided when the heater ampacity

exceeds 48 Amps to comply with UL standards. A fan delay is provided standard on models 12.5-kW and above to dissipate residual heat from the heating elements.

Approvals: cULus

^{*}Dual rated heaters will draw 13% less amps and 25% less wattage when operated at 208V. *(2)-Stage heating standard.



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